

**WHAT IS CLAIMED IS:**

1. A cosmetic composition comprising, in a physiologically acceptable medium, at least one compound which gives the cosmetic composition a thermal profile having a melting peak wherein the mid-height width  $L_f$  is less than or equal to  $20^{\circ}\text{C}$ , and wherein the cosmetic composition is heat-stable.
2. The cosmetic composition according to Claim 1, wherein the melting peak has a starting melting temperature  $T_o$  of greater than or equal to  $10^{\circ}\text{C}$ .
3. The cosmetic composition according to Claim 2, wherein the starting melting temperature  $T_o$  is greater than or equal to  $15^{\circ}\text{C}$ .
4. The cosmetic composition according to Claim 3, wherein the starting melting temperature  $T_o$  is greater than or equal to  $20^{\circ}\text{C}$ .
5. The cosmetic composition according Claim 1, wherein the melting peak has an end melting temperature  $T_f$  of less than or equal to  $90^{\circ}\text{C}$ .
6. The cosmetic composition according Claim 5, wherein the end melting temperature  $T_f$  is less than or equal to  $80^{\circ}\text{C}$ .
7. The cosmetic composition according Claim 6, wherein the end melting temperature  $T_f$  is less than or equal to  $70^{\circ}\text{C}$ .
8. The cosmetic composition according to Claim 1, wherein the melting peak has a melting point ranging from  $20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ .
9. The cosmetic composition according to Claim 1, wherein the mid-height width  $L_f$  is less than or equal to  $10^{\circ}\text{C}$ .
10. The cosmetic composition according to Claim 1, wherein the melting peak has a temperature amplitude,  $\Delta T$ ,  $T_f - T_o$ , of less than or equal to  $30^{\circ}\text{C}$ .
11. The cosmetic composition according to Claim 1, wherein the at least one

compound has a thermal profile with a melting peak wherein the mid-height width  $L_f$  is less than or equal to 20°C.

12. The cosmetic composition according to Claim 1, wherein the at least one compound is chosen from waxes, polymers and oils thickened with a structuring agent.

13. The cosmetic composition according to Claim 12, wherein the polymers are semi-crystalline polymers.

14. The cosmetic composition according to Claim 1, wherein the at least one compound is present in an amount ranging from 1% to 60% by weight, relative to the total weight of the composition.

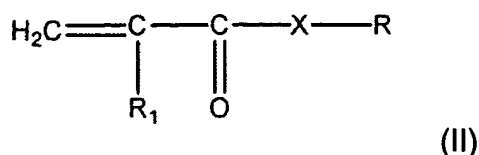
15. The cosmetic composition according to Claim 14, wherein the at least one compound is present in an amount ranging from 3% to 55% by weight, relative to the total weight of the composition.

16. The cosmetic composition according to Claim 15, wherein the at least one compound is present in an amount ranging from 5% to 50% by weight, relative to the total weight of the composition.

17. The cosmetic composition according to Claim 16, wherein the at least one compound is present in an amount ranging from 10% to 40% by weight, relative to the total weight of the composition.

18. The cosmetic composition according to Claim 13, wherein the at least one compound is a semi-crystalline polymer chosen from copolymers resulting from the polymerization of at least one monomer comprising a crystallizable chain chosen from saturated  $C_{14}$  to  $C_{24}$  alkyl (meth)acrylates,  $C_{11}$  to  $C_{15}$  perfluoroalkyl (meth)acrylates,  $C_{14}$  to  $C_{24}$  N-alkyl(meth)acrylamides optionally comprising a fluorine atom, vinyl esters comprising  $C_{14}$  to  $C_{24}$  alkyl or perfluoroalkyl chains, vinyl ethers comprising  $C_{14}$  to  $C_{24}$  alkyl or

perfluoroalkyl chains, C<sub>14</sub> to C<sub>24</sub> alpha-olefins, para-alkylstyrenes with an alkyl group comprising from 12 to 24 carbon atoms, with at least one optionally fluorinated C<sub>1</sub> to C<sub>10</sub> monocarboxylic acid ester or amide of formula (II):



wherein

R<sub>1</sub> is chosen from hydrogen atoms and CH<sub>3</sub> groups,

R is chosen from optionally fluorinated C<sub>1</sub>-C<sub>10</sub> alkyl groups, and

X is chosen from oxygen atoms, and NH and NR<sub>2</sub> groups wherein R<sub>2</sub> is chosen from optionally fluorinated C<sub>1</sub>-C<sub>10</sub> alkyl groups.

19. The cosmetic composition according to Claim 12, wherein the at least one wax is chosen from olive wax obtained by hydrogenation of olive oil esterified with stearyl alcohol, stearyl alcohol, stearyl stearate, stearyl benzoate, bis(trimethylolpropane) tetrastearate, polyethoxylated fatty acids of Montan wax, bis(trimethylolpropane) tetrabeheenate and dioctadecyl carbonate wax.

20. The cosmetic composition according to Claim 12, wherein the at least one compound is an oil thickened with a structuring agent.

21. The cosmetic composition according to Claim 1, further comprising an aqueous phase.

22. The cosmetic composition according to Claim 21, wherein the aqueous phase is present in an amount ranging from 5% to 95% by weight, relative to the total weight of the composition.

23. The cosmetic composition according to Claim 21, wherein the aqueous phase

is thickened with a thickener.

24. The cosmetic composition according to Claim 1, further comprising a film-forming polymer.

25. The cosmetic composition according to Claim 24, wherein the at least one film-forming polymer is present in a solids content amount ranging from 0.1% to 60% by weight, relative to the total weight of the composition.

26. The cosmetic composition according to Claim 25, wherein the at least one film-forming polymer is present in a solids content amount ranging from 0.5% to 40% by weight, relative to the total weight of the composition.

27. The cosmetic composition according to Claim 26, wherein the at least one film-forming polymer is present in a solids content amount ranging from 1% to 30% by weight, relative to the total weight of the composition.

28. The cosmetic composition according to Claim 1, further comprising at least one dyestuff.

29. The cosmetic composition according to Claim 28, wherein the at least one dyestuff is present in an amount ranging from 0.1% to 20% by weight, relative to the total weight of the composition.

30. The cosmetic composition according to Claim 29, wherein the at least one dyestuff is present in an amount ranging from 1% to 15% by weight, relative to the total weight of the composition.

31. The cosmetic composition according to Claim 1, wherein the composition is in the form of a composition for coating keratin fibers.

32. A cosmetic composition comprising, in a physiologically acceptable medium, at least one polymer which gives the cosmetic composition a thermal profile having a

melting peak wherein the mid-height width  $L_f$  is less than or equal to  $10^{\circ}\text{C}$ .

33. The cosmetic composition according to Claim 32, wherein the cosmetic composition is heat-stable.

34. The cosmetic composition according to Claim 32, wherein the at least one polymer is a semi-crystalline polymer.

35. A non-therapeutic cosmetic process for making up a keratin material, comprising applying to the keratin material a cosmetic composition comprising, in a physiologically acceptable medium, at least one compound which gives the cosmetic composition a thermal profile having a melting peak wherein the mid-height width  $L_f$  is less than or equal to  $20^{\circ}\text{C}$ , and wherein the composition is heat-stable, further wherein the cosmetic composition is brought to a temperature above or equal to its melting point, prior to, simultaneously with or subsequent to its application.

36. The process according to Claim 35, wherein the cosmetic composition is brought to a temperature above or equal to its end melting temperature prior to, simultaneously with, or subsequent to its application to the keratin material.

37. The process according to Claim 35, wherein the cosmetic composition is brought to a temperature above or equal to its melting point prior to its application to the keratin material by heating with microwaves, heating with a water bath, or by any other heating means equipping a packaging and application assembly containing the cosmetic composition.

38. The process according to Claim 37, wherein the packaging and application assembly is a reservoir in which the cosmetic composition is contained, wherein said reservoir is equipped with heating means on its inner walls so as to heat the cosmetic composition to a temperature above or equal to its melting point prior to its application to

the keratin material.

39. The process according to Claim 35, wherein the cosmetic composition is brought to a temperature above or equal to its melting point simultaneously with or subsequent to its application to the keratin material, by an application device comprising heating means.

40. A process for coating keratin fibers in order to deposit a film on said keratin fibers, wherein the film is homogenous and/or has improved curling properties, said process comprising applying to the fibers a cosmetic composition comprising, in a physiologically acceptable medium, at least one compound which gives the cosmetic composition a thermal profile having a melting peak wherein the mid-height width  $L_f$  is less than or equal to 20°C, and wherein the cosmetic composition is heat stable.